	CRF Erros Corrected by the STIC Systems Panch
• •	Edited by:
(Changed a file from non-ASCII to ASCII
(Observed the marring in cases where the sequence text was "wrapped" down to the next line.
ĺ	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or ther
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (erro due to a Patentin bug). Sequences corrected:
	Other:

^{*}Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE



RECEIVED JUN 0 4 2002 TECH CENTER 1600/290

DATE: 05/14/2002

TIME: 18:29:08

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/770,517C

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\I770517C.raw

```
4 <110> APPLICANT: Mitsuhashi, Kazuya
        Yamamoto, Hiroaki
5
        Matsuyama, Akinobu
6
         Tokuyama, Shinji
9 <120> TITLE OF INVENTION: D-AMINOACYLASE AND GENE ENCODING THE SAME
11 <130> FILE REFERENCE: 06501-072001
13 <140> CURRENT APPLICATION NUMBER: US 09/770,517C
14 <141> CURRENT FILING DATE: 2001-01-26
16 <150> PRIOR APPLICATION NUMBER: JP 2000-019080
17 <151> PRIOR FILING DATE: 2000-01-27
19 <150> PRIOR APPLICATION NUMBER: JP 2000-150578
20 <151> PRIOR FILING DATE: 2000-05-22
22 <160> NUMBER OF SEQ ID NOS: 27
24 <170> SOFTWARE: PatentIn Ver. 2.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1677
28 <212> TYPE: DNA
29 <213> ORGANISM: Hypomyces mycophilus
31 <400> SEQUENCE: 1
32 atgcggactg aaattctctt ccactcagcc actgttatca ccggcgatga agcagcccag
                                                                        60
33 ccctttgtgg ccgatgtgct ggtttcgaag ggactgattg ccaagattgg taaccccggt
                                                                       120
34 tocatcaatg caactccaga tacgcggcat ctcgacgtca caggctacat totatctcct
                                                                       180
35 ggtttcatcg atatgcatgc gcattcagac ctctacctac tctctcatcc tgaccacgag
                                                                       240
36 gccaaaatca cccaaggatg cacaacggaa gttgtgggcc aagacgggat atcatatgca
                                                                       300
37 ccaattcgta atgtagacca gttgagggcg atccgagaac agattgctgg atggaatggc
38 aatcctacag atgaggagtg ccggacaact ctcaaaggcg ttggcatgtt tgaatggcag
39 actattgggg aatacttgga ttgtttggag agaaacagga cggccactaa tgtcgccatg
                                                                        480
40 ttggttccgc aaggcaacct gagattattg gcatgtggcc catacgatac tccagcatct
                                                                        540
41 gcagaagaga ttcaagatca aatccagctc ttgcgagagg ctatggctca gggtgctgtc
                                                                        600
 42 gggatgtcta gtggtctcac ttatacaccc ggcatgtatg cttccacgtc ggaactagct
 43 tetetgtgeg eggeeetege acaagaattt eeaggtgeat tetatgegee acateataga
                                                                        720
 44 agttatgggt tccaggccat cgaaagttat gccgaaatgt tggatctcgg agagtcaaca
 45 ggctgtccca ttcatcttac acatgcaacg ctcaactttt cagaaaataa gggtaaagct
 46 cctgtcctca tctctatggt tgataaatct cttgctgcag gcgtggatgt cacacttgat
 47 acgtatccat acttgccagg ctgtacaact ctggctgcat tgttgccaag ttgggcatct
 48 gctggcggcc cacaagagac gcttaaaagg cttgaggatg cagaatcgag agaaaagatt 1020
 49 cgtatagccg tggaaatcaa agggtgtgat ggcggccatg gtattccaac caactgggac 1080
 50 gaaatccaga tcgggacgac taatgaacca tcaatcgcat cgtattctgg tcgcaggcta 1140
 51 tcagaagtgg cacagtctgt tggaaagccg accatcgaag tctttttcga gattctgcaa 1200
 52 aaggataage tegeaacgag etgtateatg catgttggea atgaagaaaa egteegacag 1260
 53 atcatgcagc atcgggtcca tatggcaggc agtgatggga tcttgcacgg gcagacgcta 1320
 54 cacccacgag cttatggcac attcacgcgg tatttaggac actattctcg tgaactctcg 1380
 55 cttgttgctc tgccgtccat gatcgctcac cttacatcac ggcccgccaa acgactttcg 1440
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/770,517C

DATE: 05/14/2002 TIME: 18:29:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\I770517C.raw

56 gtatatecat ategeggtet gattgetgaa ggateegetg eegacattgt ggtttttaae 1500 57 cccgaaacgg taaaggatat gtcgacgtat gaagagccaa aggtgccaag tcggggcatt 1560 58 agatttgttc tagttaacgg ccagatagct gtggacgaag gcaagatgac aggcacaaga 1620 59 gggggtaaaa cactgagaag aagcaccgat ggcaaggtga aggcaagaga tgagtaa 61 <210> SEQ ID NO: 2 62 <211> LENGTH: 558 63 <212> TYPE: PRT 64 <213> ORGANISM: Hypomyces mycophilus 66 <400> SEQUENCE: 2 67 Met Arg Thr Glu Ile Leu Phe His Ser Ala Thr Val Ile Thr Gly Asp 10 68 69 Glu Ala Ala Gln Pro Phe Val Ala Asp Val Leu Val Ser Lys Gly Leu 25 20 71 Ile Ala Lys Ile Gly Asn Pro Gly Ser Ile Asn Ala Thr Pro Asp Thr 40 73 Arg His Leu Asp Val Thr Gly Tyr Ile Leu Ser Pro Gly Phe Ile Asp 55 50 75 Met His Ala His Ser Asp Leu Tyr Leu Leu Ser His Pro Asp His Glu 75 70 76 65 77 Ala Lys Ile Thr Gln Gly Cys Thr Thr Glu Val Val Gly Gln Asp Gly 90 78 79 Ile Ser Tyr Ala Pro Ile Arg Asn Val Asp Gln Leu Arg Ala Ile Arg 110 100 80 81 Glu Gln Ile Ala Gly Trp Asn Gly Asn Pro Thr Asp Glu Glu Cys Arg 120 115 82 83 Thr Thr Leu Lys Gly Val Gly Met Phe Glu Trp Gln Thr Ile Gly Glu 140 135 85 Tyr Leu Asp Cys Leu Glu Arg Asn Arg Thr Ala Thr Asn Val Ala Met 150 87 Leu Val Pro Gln Gly Asn Leu Arg Leu Leu Ala Cys Gly Pro Tyr Asp 170 165 89 Thr Pro Ala Ser Ala Glu Glu Ile Gln Asp Gln Ile Gln Leu Leu Arg 185 180 91 Glu Ala Met Ala Gln Gly Ala Val Gly Met Ser Ser Gly Leu Thr Tyr 205 200 195 93 Thr Pro Gly Met Tyr Ala Ser Thr Ser Glu Leu Ala Ser Leu Cys Ala 220 215 95 Ala Leu Ala Gln Glu Phe Pro Gly Ala Phe Tyr Ala Pro His His Arg 235 230 97 Ser Tyr Gly Phe Gln Ala Ile Glu Ser Tyr Ala Glu Met Leu Asp Leu 250 245 99 Gly Glu Ser Thr Gly Cys Pro Ile His Leu Thr His Ala Thr Leu Asn 265 101 Phe Ser Glu Asn Lys Gly Lys Ala Pro Val Leu Ile Ser Met Val Asp 280 275 103 Lys Ser Leu Ala Ala Gly Val Asp Val Thr Leu Asp Thr Tyr Pro Tyr 300 295 105 Leu Pro Gly Cys Thr Thr Leu Ala Ala Leu Leu Pro Ser Trp Ala Ser 310 106 305

RAW SEQUENCE LISTING DATE: 05/14/2002 PATENT APPLICATION: US/09/770,517C TIME: 18:29:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\I770517C.raw

```
107 Ala Gly Gly Pro Gln Glu Thr Leu Lys Arg Leu Glu Asp Ala Glu Ser
                                            330
                        325
    109 Arg Glu Lys Ile Arg Ile Ala Val Glu Ile Lys Gly Cys Asp Gly Gly
                                        345
                    340
    111 His Gly Ile Pro Thr Asn Trp Asp Glu Ile Gln Ile Gly Thr Thr Asn
                                    360
                                                        365
                355
    113 Glu Pro Ser Ile Ala Ser Tyr Ser Gly Arg Arg Leu Ser Glu Val Ala
                                375
    115 Gln Ser Val Gly Lys Pro Thr Ile Glu Val Phe Phe Glu Ile Leu Gln
                                                 395
                            390
    117 Lys Asp Lys Leu Ala Thr Ser Cys Ile Met His Val Gly Asn Glu Glu
                                            410
                        405
    119 Asn Val Arg Gln Ile Met Gln His Arg Val His Met Ala Gly Ser Asp
                                        425
                    420
    121 Gly Ile Leu His Gly Gln Thr Leu His Pro Arg Ala Tyr Gly Thr Phe
                                    440
        435
    123 Thr Arg Tyr Leu Gly His Tyr Ser Arg Glu Leu Ser Leu Val Ala Leu
                                                     460
    124 450
                                455
    125 Pro Ser Met Ile Ala His Leu Thr Ser Arg Pro Ala Lys Arg Leu Ser
                                                475
                            470
    127 Val Tyr Pro Tyr Arg Gly Leu Ile Ala Glu Gly Ser Ala Ala Asp Ile
                        485
                                            490
    129 Val Val Phe Asn Pro Glu Thr Val Lys Asp Met Ser Thr Tyr Glu Glu
                                         505
                    500
    130
    131 Pro Lys Val Pro Ser Arg Gly Ile Arg Phe Val Leu Val Asn Gly Gln
                                     520
                515
    133 Ile Ala Val Asp Glu Gly Lys Met Thr Gly Thr Arg Gly Gly Lys Thr
                                535
    135 Leu Arg Arg Ser Thr Asp Gly Lys Val Lys Ala Arg Asp Glu
                            550
    136 545
    138 <210> SEQ ID NO: 3
    139 <211> LENGTH: 20
    140 <212> TYPE: DNA
    141 <213> ORGANISM: Artificial Sequence
    143 <220> FEATURE:
    144 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence
    146 <400> SEQUENCE: 3
                                                                           20
    147 cccggcttca tcgacatgca
    149 <210> SEQ ID NO: 4
    150 <211> LENGTH: 20
    151 <212> TYPE: DNA
    152 <213> ORGANISM: Artificial Sequence
    154 <220> FEATURE:
    155 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence
W--> 157 <221> NAME/KEY: misc_feature
    158 <222> LOCATION: 18
    159 <223> OTHER INFORMATION: n = A, T, C or G
W--> 161 <400> 4
                                                                           20
W--> 162 ttcatcgaca tgcaygcnca
```

RAW SEQUENCE LISTING DATE: 05/14/2002 PATENT APPLICATION: US/09/770,517C TIME: 18:29:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\I770517C.raw

164 <210> SEQ ID NO: 5 165 <211> LENGTH: 20 166 <212> TYPE: DNA 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence W--> 172 <221> NAME/KEY: misc_feature 173 <222> LOCATION: 3, 6, 15 174 <223> OTHER INFORMATION: n = A, T, C or G W--> 176 <400> 5 20 W--> 177 tgnggngcrt craangcytg 179 <210> SEQ ID NO: 6 180 <211> LENGTH: 20 181 <212> TYPE: DNA 182 <213> ORGANISM: Artificial Sequence 184 <220> FEATURE: 185 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence W--> 187 <221> NAME/KEY: misc_feature 188 <222> LOCATION: 3, 9 189 <223> OTHER INFORMATION: n = A, T, C or G W--> 191 <400> 6 20 W--> 192 aangcytgng grtaytcrtc 194 <210> SEO ID NO: 7 195 <211> LENGTH: 321 196 <212> TYPE: DNA 197 <213> ORGANISM: Hypomyces mycophilus 199 <400> SEQUENCE: 7 200 ttcatcgaca tgcatgcgca gctggatggt caaccttgac aactacaaca agatactctc 60 201 tgtagacaaa aaatcggggg tcgtggtcat gcagagcggc attcgactat acaccctttg 120 202 cgaagagctg gagctacatg gcctggcaat gccgaacctg ggcagtataa acgagcaatc 180 203 categoogge gecatateta caggeacaca eggeageage atceaceaeg geeteatgte 240 204 tgaggatatt ctcgctctga aaatcactct cgcgggcggc aagacggagg catgctccaa 300 205 agacgaatac ccccaagcct t 207 <210> SEQ ID NO: 8 208 <211> LENGTH: 20 209 <212> TYPE: DNA 210 <213> ORGANISM: Artificial Sequence 212 <220> FEATURE: 213 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence 215 <400> SEQUENCE: 8 20 216 aggccaaaat cacccaagga 218 <210> SEQ ID NO: 9 219 <211> LENGTH: 20 220 <212> TYPE: DNA 221 <213> ORGANISM: Artificial Sequence 223 <220> FEATURE: 224 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence

226 <400> SEQUENCE: 9
227 attggggaat acttggattg

20

RAW SEQUENCE LISTING DATE: 05/14/2002 PATENT APPLICATION: US/09/770,517C TIME: 18:29:08

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\I770517C.raw

```
229 <210> SEO ID NO: 10
230 <211> LENGTH: 20
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence
237 <400> SEQUENCE: 10
                                                                       20
238 ctggttcttt ccgcctcaga
240 <210> SEQ ID NO: 11
241 <211> LENGTH: 20
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Artificially Synthesized Primer Sequence
248 <400> SEQUENCE: 11
249 attaaccctc actaaagggc
                                                                       20
251 <210> SEQ ID NO: 12
252 <211> LENGTH: 1325
253 <212> TYPE: DNA
254 <213> ORGANISM: Hypomyces mycophilus
256 <400> SEQUENCE: 12
257 caggacggcc actaatgtcg ccatgttggt tccgcaaggc aacctgagat tattggcatg
258 tggcccatac gatactccag catctgcaga agagattcaa gatcaaatcc agctcttgcg
259 agaggetatg getcagggtg etgtegggat gtetagtggt etcaettata caeceggeat
260 gtatgettee aegteggaae tagettetet gtgegeggee etegeaeaag aattteeagg
261 tgcattctat gcgccacatc atagaagtta tgggttccag gccatcgaaa gttatgccga
262 aatgttggat ctcggagagt caacaggctg tcccattcat cttacacatg caacgctcaa
                                                                        360
263 cttttcagaa aataagggta aagctcctgt cctcatctct atggttgata aatctcttgc
                                                                        420
264 tgcaggcgtg gatgtcacac ttgatacgta tccatacttg ccaggctgta caactctggc
265 tgcattgctg ccaagtcggg catctgctgg cggcccacaa gagacgctta aaaggcttga
                                                                        540
266 qqatqcaqaa tcqaqaqaaa agattcgtat agccgtggaa atcaaagggt gtgatggcgg
                                                                        600
267 ccatggtatt ccaaccaact gggacgaaat ccagatcggg acgactaatg aaccatcaat
268 cgcatcgtat tctggtcgca ggctatcaga agtggcacag tctgttggaa agccgaccat
269 cgaagtettt ttegagatte tgeaaaagga taagetegea aegagetgta teatgeatgt
270 tggcaatgaa gaaaacgtcc gacagatcat gcagcatcgg gtccatatgg caggcagtga
271 tgggatcttg cacgggcaga cgctacaccc acgagcttat ggcacattca cgcggtattt
272 aggacactat tctcgtgaac tctcgcttgt tgctctgccg tccatgatcg ctcaccttac
273 atcacggccc gccaaacgac tttcggtata tccatatcgc ggtctgattg ctgaaggatc 1020
274 cgctgccgac attgtggttt ttaaccccga aacggtaaag gatatgtcga cgtatgaaga 1080
275 gccaaaggtg ccaagtcggg gcattagatt tgttctagtt aacggccaga tagctgtgga 1140
276 cgaaggcaag atgacaggca caagaggggg taaaacactg agaagaagca ccgatggcaa 1200
277 ggtgaaggca agagatgagt aaagtctcga tctgcatccg cgtgcccaac aacaggatca 1260
278 agtcgtcaca gcatgatacg gcaggctttg gagtagatac catgtcatgg gggaaatggt 1320
279 caata
281 <210> SEQ ID NO: 13
282 <211> LENGTH: 21
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/770,517C

DATE: 05/14/2002 TIME: 18:29:09

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05142002\1770517C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 18
Seq#:5; N Pos. 3,6,15
Seq#:6; N Pos. 3,9